

like all other *Cupressocrini*, is of Devonian age. The resemblance to *C. elongatus* suggests that it is Middle Devonian, though it may well be slightly later than that species. The Devonian of the north-eastern region of Spain, says L. Mallada (1898, Explic. Mapa Geol. España, tomo iii. p. 5), contains the same genera of crinoids as characterize the system in the Rhenish provinces, viz., in the limestones of Ferroñes (Upper Coblentian), Arnao (zone of *Spirifer cultrijugatus*), and Moniello (with *Calceola*, Upper Eifelian). Clearly it must be the last of these, if any, that yielded *Cupressocrinus townsendi*; and one may suppose that the fossil came from a bed closely corresponding to the "Crinoidenschicht" of the Eifel.

*Cupressocrinus townsendi* appears to be the only definitely described and named species of the genus as yet recorded from Spain. The fact may, however, be recalled that D. & P. Oehlert have described some massive brachials and other remains from the Middle (? Lower) Devonian of Santa Lucia in León, which indicate the existence of a distinct species, probably allied to *C. schlotheimi* (1897, Bull. Soc. géol. France, sér. 3, tome xxiv. p. 286).

LI.—*Notes and Synonymy of Hymenoptera in the Collection of the British Museum.* By GEOFFREY MEADE-WALDO, M.A., and CLAUDE MORLEY, F.Z.S.

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DURING the past year the large quantity of Hymenoptera from all parts of the world acquired by the late Peter Cameron has become the property of the British Museum. Among them were some 2000 type-specimens.

Up to the present all the types belonging to the families Apidæ, Eumenidæ, Vespidæ, and Masaridæ have been examined and incorporated in the collection; Mr. Claude Morley has studied a number of the types of Ichneumonidæ in the same way.

A number of these prove to belong to previously known species; notes on their synonymy will be found below.

Notes on a few species from other sources are included.

## Family APIDÆ.

- Allodape 5-lineata* (Cam.) (1905) = *Prosopis 5-lineata*, Cam.  
Near *A. panurgoides*, Smith, but differing in the white thoracic pubescence. A South-African species.
- Allodape marginata*, Smith (1854) = *Prosopis hewitti*, Cam. (1908).  
Cameron's type is from Kuching, Borneo; the species has been recorded from several East-Indian localities.
- Colletes malma* (Cam.) = *Andrena malma*, Cam. } S. Africa (1905).  
*Colletes matha* (Cam.) = *Andrena matha*, Cam. }
- Nomia fervida*, Smith (1875) = *Nomia nursei*, Cam., ♂. Deesa.
- Megachile ornata*, Smith (1853) = *Megachile wallacei*, Cam., ♀.  
Sarawak.
- Megachile laticeps*, Smith (1853), ♂ = *M. cecina*, Cam., ♂. }  
from Phil. Isl. = *M. borneana*, Cam., ♂. } Sarawak.  
= *M. varidens*, Cam., ♂. }  
= *M. gadara*, Cam., ♂. }
- Megachile* (*Eumegachile*) *stirostoma* (Cam.) = *M. stirostoma*, Cam.  
(1913). Dehra Dun.
- Megachile maritima*, K. (1802) = *M. melanoneura*, Cam. (1909).  
Simla.
- Megachile umbripennis*, Smith (1853) = *M. lerma*, Cam. (1908).
- Megachile patellimana*, Spin. (1838) = *M. rugicauda*, Cam. (1908).
- Megachile hera*, Bingham (1897) = *M. bombayensis*, Cam. (1908).  
= *M. erythrostoma*, Cam. (1908).  
= *M. kukinka*, Cam.
- Megachile nana*, Bingham (1907) = *M. gathela*, Cam. (1908), ♀.  
Deesa.
- Megachile saphira*, Cam., ♂ (1907) = *M. lefroma*, Cam., ♂ (1907).  
Matheran.
- Megachile venusta*, Smith (1853) = *M. leucopsis*, Schletterer (1891).  
Through the kindness of Dr. Severin I have been able to examine the types of Schletterer's species from the Congo.
- Megachile adeloptera*, Schletterer (1891) = *M. duponti*, Vachal  
(1903).
- Osmia anonyma* (Cam.) = *Megachile? anonyma*, Cam. (1908).  
Colonel Nurse had attached an MS. note to the specimen when he submitted it to Cameron to the effect that he did not consider it a *Megachile*.
- Nomioides comberi*, Ckll., ♀ = *Ceratina punjabensis*, Cam. (1907).

*Nomioides divisus* (Cam.) = *Ceratina divisa*, Cam. (1907) } Deesa.  
 = *Ceratina spilaspis*, Cam. (1908) }

*Xylocopa flavonigrescens*, Smith (1854) = *Xylocopa malayana*,  
 Cam., ♂. Singapore.

*Xylocopa fenestrata*, Fabr. (1798) = *X. bombayensis*, Cam.

*Cœlioxys confusa*, Smith (1875) = *Cœlioxys tenuilineata*, Cam., ♀  
 (1913). Simla.

*Cœlioxys afra*, Lep. (1841) = *C. ruficaudis*, Cam., ♀ (1913). Simla.

#### Tribe DIPLOPTERA.

#### Family MASARIDÆ.

*Plesiomasaris maculiceps*, Cam. (1904) = *Odynerus simplicipes*,  
 Cam. (1905). Mexico.

In a previous paper (Ann. & Mag. Nat. Hist. (8) vi. p. 101, 1910) I pointed out that the *O. simplicipes* described by Cameron could not belong to that genus. I have now compared it with the type of *Plesiomasaris maculiceps*, with which it is identical. In the British Museum there are also three specimens from Guerrero, 3000 feet (Godman-Salvin Coll.).

#### Family EUMENIDÆ.

*Eumenes canaliculatus*, Oliv. (1773) = *Eumenes lineatifrons*, Cam.  
 (1912). British Guiana.

*Eumenes lucasia*, Sauss. (1852) = *Zethus broomi*, Cam. (1904).  
 S. Africa.

*Eumenes campaniformis*, F. (1775) (= *urvillei*, Sauss.) = *Eumenes*  
*tricolor*, Cam. Australia.

I have compared Cameron's type with the Fabrician type in the Banks Collection.

*Labus interstitialis* (Cam.) = *Zethus interstitialis*, Cam. (1902).  
 N. India.

*Calligaster cyanopterus*, Sauss. (1852) = *Zethus erythrostomus*, Cam.  
 Java.

*Zethus lobulatus*, Sauss. (1856) = *Brooprymna rufo-ornata*, Cam.  
 (1912). British Guiana.

*Montezunia pulchella* (Smith) (1857) = *Zethus rufofemoratus*, Cam.  
 Borneo.

*Montezunia leprieuri*, Spin. (1841) (= *pelagica*, Sauss.) = *Monte-*  
*zunia rodwayi*, Cam. (1912). British Guiana.

- Rhynchium imitator* (Cam.)=*Synvigris imitatrix*, Cam. (1903).  
Transvaal.
- Rhynchium leviscutus* (Cam.)=*Odynerus leviscutis*, Cam. (1908).  
Bombay.
- Odynerus* (*Ancistrocerus*) *leucospilus*, Cam., var. (1907)=*O. (Ancistrocerus) quettaensis*, Cam. (1907).
- Odynerus drescheri*, Cam. (1905). Java=*O. krichingensis*, Cam. (1905). Borneo.
- Odynerus* (*Lionotus*) *megaspilus*, Cam. (1907), ♀=*O. santubongensis*, Cam. (1908), ♀.  
Cameron described *O. megaspilus* as an *Ancistrocerus*; *O. santubongensis* is not quite typical, the clypeus having a black spot; in *O. megaspilus* it is wholly yellow.
- Odynerus laboriosus*, Smith (1863). New Guinea=*Odynerus waigoensis*, Cam. (1913). Waigiou.
- Odynerus* (*Symmorphus*) *canadensis*, Sauss. (1856)=*Symmorphus cogitans*, Cam. (1906).
- Odynerus monteregalis*, M.-Waldo, nom. nov.=*Odynerus (Ancistrocerus) canadaensis*, Cam. (nec Sauss.). Montreal.
- Odynerus acapulcensis* (Cam.)=*Nortonia acapulcensis*, Cam. Mexico.
- Odynerus basimacula* (Cam.)=*Nortonia? basimacula*, Cam. (1908). Texas.
- Odynerus erectus*. Cress. (1872), var.=*Odynerus birkmani*. Cam.  
This specimen, described by Cameron from Texas, differs from typical *O. erectus* in having the terminal segments of the abdomen with apical yellow fasciæ.
- Paralastor apicatus*, Smith (1858). Aru=*Odynerus lorentzi*, Cam. (1911). Dutch New Guinea (Lorentz Exped.).  
Dr. R. C. L. Perkins writes on this species (P. Z. S. 1914, p. 584).

## Family VESPIDÆ.

- Ischnogaster fulvipennis*, Guérin (1830)=*Ischnogaster canaliculatus*, Cam. (1911).  
Described from Dutch New Guinea (Lorentz Exped.).
- Ischnogaster iridipennis*, Smith (1858)=*Ischnogaster malayaensis*, Cam. (1906). Dutch New Guinea.  
Described from Etua Bay (1903).
- Icaria conservator*, Smith (1860)=*Icaria waiguensis*, Cam. (1913). Waigiou.

*Icaria nigra*, Smith (1858), var. *catharinæ* (Cam.) = *Ancistrocerus catharinæ*, Cam. (1913).

All the species published with the specific name "*catharinæ*" in Cameron's paper on the Waigiou Hymenoptera (Bijdr. Dierk. viii. pp. 76-86, 1913) bear labels with the specific name "*beau-forti*" on the type-specimens. The var. *catharinæ* differs from the type in having the following yellow facial markings:—a bilobed mark between antennæ at base, a mark on lower orbits on each side, and two apical marks on clypeus. There is a specimen in the British Museum from Aru (Coll. W. W. Froggatt) which agrees with the type in the Amsterdam Museum.

*Icaria confraternus* (Cam.) = *Odynerus confraternus*, Cam. (1911). Dutch New Guinea (Lorentz Exped.).

*Mischocyttarus labiatus*, Fab., ♂ (1804) = *Megacanthopus violaceipennis*, Cam. (1911). British Guiana.

*Mischocyttarus labiatus*, Fab., var. *drewseni*, Sauss. (1857) = *Megacanthopus atriceps*, Cam., and *Megacanthopus rotundicollis*, Cam.

Both described from British Guiana in 1911.

*Mischocyttarus longipetiolatus* (Cam.) = *Megacanthopus longipetiolatus*, Cam. (1911). British Guiana.

*Nectarina lecheguana*, Latr. (1824) = *Nectarina arizonensis*, Cam. Arizona.

*Protonectarina sylveiræ* (Sauss.) (1853) = *Charterginus rotundilineatus*, Cam. Brazil.

A discoloured specimen, the yellow turned red by cyanide.

*Chartergus chartarius*, Oliv., ♂ (1791) = *Chartergus tuberculatus*, Cam., ♂ (1907). Brazil.

*Parachartergus vespiceps*, Sauss., var. *testaceus*, Ducke = *Xanthocaba nigrolineata*, Cam. Brazil.

*Icaria speciosa*, Sauss. (1855) = *Icaria rufinoda*, Cam. Singapore.

*Polistes tepidus*, Fab. (1775) = *Polistes malayanus*, Cam. (1906). N. Guinea.

*Polybia* (Parapolybia) *orientalis*, Sauss. (1853) = *Icaria wroughtoni*, Cam. Poona.

— (—) —, var. = *Icaria annulipes*, Cam. Dehra Dun.

— (—) —, var. = *Icaria fuscipennis*, Cam. (1900). Khasia.

This is a variable species, and Cameron has been misled by colour-differences.

*Polybia occidentalis*, Oliv., var. *brunneiceps* (Cam.) = *Polybia brunneiceps*, Cam. (1911). Brit. Guiana.

*Polybia rejecta*, Fab. (1793) (= *bicolor*, Sm.) = *Polybia belizensis*,  
Cam. (1911). Brit. Guiana.

*Megacanthopus injucundus* (Sauss.) = *Polybia bimarginata*, Cam.  
(1911). Brit. Guiana.

*Megacanthopus basimacula* (Cam.) = *Polybia basimacula*, Cam.  
(1907). British Honduras.

Family ICHNEUMONIDÆ. By CLAUDE MORLEY, F.Z.S., F.E.S.

*Ichneumon sollicitorius*, Fab. (1775) = *Ichneumon consanguineus*,  
Smith (1876), New Zealand; and *Amblyteles zealandica*,  
Cam. (1901), New Zealand.

*Ichneumon huttoni*, Kirby (1881) = *Degithina buchanani*, Cam.  
(1901). New Zealand.

*Ichneumon maculipleuralis*, Cam. (1886) = *Antelca rufa*, Cam.,  
? MS. Centr. Amer.

*Ichneumon placidus*, Smith (1876), nec Prov. (1875) = *Ichneumon*  
*richardi*, Cam. (1901). New Zealand.

*Ichneumon conspiratus*, Smith (1876) = *Ichneumon frederici*, Cam.  
(1901). New Zealand.

*Exeristes nigroscutis*, Cam. (1907) = *Charitopimpla nigroscutis*,  
Cam. (1907). India.

*Exeristes flavoscutis*, Cam. (1907) = *Charitopimpla flavoscutis*,  
Cam. (1907). India.

*Pristomerus marginicollis*, Cam. (1907) = *Pristomeridia margini-*  
*collis*, Cam. (1907). India.

*Echthromorpha notulatorix*, Fab. (1804) = *Echthromorpha lewa*,  
Cam. (1903). India.

*Epiurus latisulcatus*, Cam. (1908) = *Pimpla latisulcata*, Cam.  
(1908). India.

*Epiurus sikkimensis*, Cam. (1908) = *Pimpla sikkimensis*, Cam.  
(1908). India.

*Cryptus sororius*, Cress. (1872) = *Campocryptus brevicornis*, Cam.  
(1905). N. America.

*Cryptus maculiscutis*, Cam. (? MS.) = *Distantella maculiscutis*, Cam.  
(? MS.).

*Cryptus pallidilineatus*, Cam. (? MS.) = *Distantella pallidilineata*,  
Cam. (? MS.).

*Hemiteles areator*, Panz. (1801) = *Otaeustes nigroornatus*, Cam.  
(1908). North America.

- Cœlichneumon sponsatorius*, Fab. (1804) = *Stenichneumon water-toni*, Cam. (1911), British Guiana; and *Ichneumon argenti-pilosis*, Cam. (1886), Mexico.
- Amblyteles montanus*, Cam., ♀, ? MS. = *Trogus montanus*, Cam., ? MS.
- Theronia penetrans*, Smith (1858) = *Theronia papuana*, Cam. (1911). New Guinea.
- Theronia zebra*, Voll. (1879) = *Theronia maskeliya*, Cam. (1905). India.
- Neotheronia chiriquensis*, Cam. (1886) = *Neotheronia erythrea*, Cam. (1911). British Guiana.
- Neotheronia alternans*, Brullé (1846) = *Neotheronia claripennis*, Cam. (1911). British Guiana.
- Lampronota punctata*, Cress. (1870) = *Lampronota aciculata*, Cam. (1905). North America.
- Epimecis fuscipennis*, Cress. (1865) = *Epimeces fuscipennis*, Cam. (1911). British Guiana.
- Epimecis wilti*, Cress. (1870) = *Epimecis tibialis*, Cam. (1886). Mexico.
- Orona petiolaris*, Cam. (1905). N. America = "A Stilpnid genus closely allied to *Phrubus monilicornis*, Bridg." (cf. Morley, 'Ichneumonologia Britannica,' iv. p. 268, 1911).
- Hemipimpla pulcherrima*, Cress. (1886) = *Odontopimpla armatipes*, Cam. (1911). Central America, British Guiana.
- Hemipimpla vipioides*, Brullé (1846) = *Cosmiopimpla ferruginea*, Cam. (1905). S. Africa.
- Pimpla ichneumoniformis*, Cress. (1873) = *Ichneumon chiriquensis*, Cam. (1884). Central America.
- Pimpla flavipes* (Cam.) (1905) = *Lissotheronia flavipes*, Cam. (1905), India; and *Pimpla ampla*, Morley (1913).
- Glyphicnemis rufipes*, Cam., ? MS. = *Bachia rufipes*, Cam., ? MS. N. America.
- Syzeuctus xanthostomus* (Cam.), ? MS. = *Lissonota xanthostoma*, Cam., ? MS.
- Syzeuctus maculatorius*, Fab. (1787) = *Lissonota athiopica*, Cam. (1906). S. Africa.
- Syzeuctus xanthorius* (Cam.) (1904) = *Lissonota xanthoria*, Cam. India.

- Nototrachys californicus*, Cress. (1878) = *Nototrachus spilocephalus*,  
Cam., ? MS. N. America.
- Nototrachys variistriatus*, Morl., nom. nov. (1912) = *N. reticulatus*,  
Cam. (nec Cress.), 1905. Ceylon.
- Diocetes maculipes* (Cam.) (1905) = *Enytus maculipes*, Cam. (1905).  
N. America.
- Dicælotus testaceicornis*, Cam. (1908) = *Bathymetis testaceicornis*,  
Cam. (1908). N. America.  
This species is extremely near *D. cameroni*, Bridg.
- Dicælotus cariniscutis*, Cam. (1906) = *Leptodermas cariniscutis*,  
Cam. (1906). S. Africa.
- ? *Nonus atratus*, Cress. (1886) = *Nonnus biannulatus*, Cam. (1911).  
British Guiana.  
This genus is closely related to *Nematopodius*, Grav.
- Phæogenes erythrostomus*, Cam. (1908) = *Stilboscopus erythro-*  
*stomus*, Cam. (1908). N. America.
- Henicospilus purgatus*, Say (1836) = *Enicospilus maculiceps*, Cam.  
(1911). British Guiana.  
Two alar corneous marks are distinct.
- Henicospilus concolor*, Cress. (1869) = *Enicospilus guyanensis*,  
Cam. (1911). British Guiana.
- Allocamptus renovatus*, Morl. (1912) = *Ophion latilineatus*, Cam.  
(1911). British Guiana.
- Stauropodoctonus maculipennis*, Cam. (1886) = *Enicospilus parvi-*  
*maculatus*, Cam. (1911). British Guiana.
- Thyreodon cyaneus*, Brullé (1846) = *Thyreodon nigroceruleus*,  
Cam. (1911). British Guiana.
- Thalessa?* *instigator*, Smith = *Certonotus rufipes*, Cam. (1911).  
New Guinea.
- Epirhyssa lorentzi*, Cam. = *Certonotus lorentzi*, Cam. (1911). New  
Guinea.  
Closely allied to *E. japonica*, Cam.
- Epirhyssa?* *flavopicta*, Smith (1864), var. = *Epirhyssa albolineata*,  
Cam. (1911). Malaysia.
- Certonotus seminiger*, Krieg. (1901) = *Certonotus labialis*, Cam.  
(1907). New Guinea.
- Phytodiætoides spinipes*, Cam. (1905) = *Rhorus spinipes*, Cam.  
(1905), and *P. negæra*, Morl. (1913). India.
- Paniscus grumi*, Kok. (1906) = *Paniscus melanarius*, Cam., ? MS.  
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- Polyclistus mansuetor*, Grav. (1829) = *Exochus fuscipilosus*, Cam.,  
? MS., and *Plesioexochus rufipes*, Cam., ? MS. S. Africa.
- Itopectis rufa*, Cam. (1906) = *Delaulax rufa*, Cam. (1912).  
S. Africa.
- Near *I. sponsa*, Hal. (1836).
- Mesostenoides albomaculatus* (Cam.) (1902, nec Cress. 1864) =  
*Feneias albomaculatus*, Cam. India.
- Goryphus*, Holmgr. (1868) = *Melcha*, Cam. (1902).
- Osprhynchotus gigas*, Kriech. (1894) = *Osprhynchotus ruficeps*,  
Cam. (1906). S. Africa.
- Idiolispa*, Först. (1868) = *Phaedro phaedrus*, Cam. (1906). India,  
Europe.

LII.—*Four new Small Mammals from Venezuela.*

By OLDFIELD THOMAS.

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*Saccopteryx pumila*, sp. n.

Near *S. canescens*, Thos., but the molars larger.

External characters as in *canescens*, though the colour is rather darker so as to be intermediate between the greyish brown of *canescens* and the dark brown of *leptura*.

Size of skull as in *S. canescens*, therefore conspicuously smaller and more delicate than in *S. leptura*. Interorbital and intertemporal region narrow. Anteorbital inflation more marked than in either *canescens* or *leptura*, though less than in *Peropteryx*. Postero-lateral edges of palate directly transverse, not slanted backwards towards the middle as in *S. leptura*. Mesopterygoid fossa narrow. Basisphenoid pit without narial septum. Foramina between the outer corners of the pit and the glenoid surfaces quite small, as in *S. canescens*, much larger in *S. leptura* and *gymnura*.

Molars conspicuously larger than in *S. canescens* and *gymnura*, nearly equalling those of *S. leptura*.

Dimensions of the type :—

Forearm 37·5 mm.

Skull : greatest length 13·7 ; condylo-basal length to front of canine 11·3 ; zygomatic breadth 7·7 ; interorbital breadth 2·7 ; intertemporal breadth 2 ; breadth of brain-case 6·2 ;